

Supplementary Table S1. Access numbers and dissociation temperatures of evaluated genes in the relative expression analysis

Genes	Melting temperature (T_m °C)	GenBank Access N°
<i>IL4</i>	80.6	NM_173921
<i>IL5</i>	76.68	NM_173922
<i>IL6</i>	81.5	NM_173923
<i>IL8</i>	80.5	NM_173925
<i>IL13</i>	79.9	NM_174089.1
<i>FCεR1A</i>	81.8	NM_001100310
<i>β-actin</i>	84.25	XM_027528015.1
<i>GAPDH</i>	85.3	NM_001190390.1

Supplementary Table S2. Correlation (r2) between phenotypic traits and immune genes in the positive control group and lambs immunised with *H. contortus* antigens. The analysed results correspond to the data at the end of the experimental evaluation.

GROUPS		<i>IL5</i>	<i>IL6</i>	<i>CXCL8</i>	<i>IL13</i>	<i>FCεR1A</i>	EPG	Ht	IgG-15	IgG-S28
S28P	<i>IL4</i>	-0.274	-0.175	-0.211	-0.236	-0.262	-0.342	0.363		-0.216
	<i>IL5</i>	1	0.579	0.688	-0.273	0.905*	-0.498	0.446		0.709
	<i>IL6</i>		1	-0.174	-0.074	0.870*	-0.304	-0.065		0.063
	<i>CXCL8</i>			1	-0.313	0.319	-0.283	0.476		0.768
	<i>IL13</i>				1	-0.174	0.805	-0.436		0.267
	<i>FCεR1A</i>					1	-0.450	0.245		0.474
	EPG						1	-0.797		0.034
	Ht							1		0.324
	IgG								1	
15kDaNP	<i>IL4</i>	.848*	.889**	.902**	0.686	-0.005	-0.445	0.088		-0.416
	<i>IL5</i>	1	0.601	.951**	0.317	0.211	-0.492	0.199		-0.301
	<i>IL6</i>		1	0.615	.914**	-0.019	-0.481	0.233		-0.471
	<i>CXCL8</i>			1	0.325	0.005	-0.378	-0.010		-0.328
	<i>IL13</i>				1	0.104	-0.474	0.163		-0.389
	<i>FCεR1A</i>					1	-0.315	0.396		0.316
	EPG						1	-0.547		-0.229
	Ht							1		0.432
	IgG								1	
PC	<i>IL4</i>	1.000**	0.685	0.683	0.144	0.682	-0.528	0.939*	0,823	-0,473
	<i>IL5</i>	1	0.675	0.673	0.121	0.672	-0.541	0.944*	0,829	-0,457
	<i>IL6</i>		1	1.000**	0.346	1.000**	-0.568	0.591	0,154	-0.884*
	<i>CXCL8</i>			1	0.348	1.000**	-0.569	0.589	0,151	-0.883*

<i>IL13</i>	1	0.368	-0.042	-0.194	-0,107	-0,224
<i>FCεRIα</i>	1	-0.562	0.581	0,149	-0.883*	
EPG		1	-0.459	-0,223	0,156	
Ht			1	0,830	-0,459	
IgG-15				1	0,009	
IgG-S28					1	

**p ≤ 0.01; *p ≤ 0.05.